

CLAIMS

What is claimed is:

1. An actuating device comprising:

a base part;

a movable part which can pivot about a pivot axis with respect to said base part;

a push/pull rod having a first end which is pivotably coupled to one of said movable part and said base part at a distance from said pivot axis, and a second end which is movable along a guide path on the other of said movable part and said base part, said guide path extending transversely to said pivot axis; and

a driving device comprising a first cable which pulls said second end of said rod in a first direction on said guide path, a second cable which pulls said second end of said rod in a second direction on said guide path, and at least one cable drum for winding said cables.

2. An actuating device as in claim 1 wherein said driving device comprises a first cable drum for said first cable and a second cable drum for said second cable, said drums being driven so that one cable is being wound while the other cable is being unwound.

3. An actuating device as in claim 1 wherein said driving device comprises a common cable drum for both of said cables, and a motor which can be reversed so that one cable is being wound while the other cable is being unwound.

1 4. An actuating device as in claim 1 wherein said driving device
2 comprises an electric motor for driving said at least one cable drum.

1 5. An actuating device as in claim 4 wherein said motor drives said at
2 least one cable drum via gears.

1 6. An actuating device as in claim 1 further comprising a deflection
2 pulley guiding at least one of said cables.

1 7. An actuating device as in claim 1 further comprising at least one
2 deflection pulley for guiding at least one of said cables in the manner of a block and
3 tackle.

1 8. An actuating device as in claim 1 further comprising a sheath
2 surrounding at least one of said cables to form a respective at least one Bowden cable.

1 9. An actuating device as in claim 1 wherein said guide path is a
2 rectilinear guide path.

1 10. An actuating device as in claim 1 further comprising a slideway
2 along said guide path and a slide which is displaceable in said slideway, said second
3 end of said push/pull rod being pivotably connected to said slide.

1 11. An actuating device as in claim 1 further comprising a sensor for
2 detecting a position of said movable part relative to said base part.

1 12. An actuating device as in claim 11 wherein said sensor is a
2 rotational position sensor.

1 13. An actuating device as in claim 12 wherein said rotational position
2 sensor detects the rotational position of the movable part.

1 14. An actuating device as in claim 12 further comprising an electric
2 motor for driving said at least one cable drum, said sensor detecting the rotational
3 position of said motor.

1 15. An actuating device as in claim 11 wherein said sensor detects the
2 position of said second end of said push/pull rod.

1 16. An actuating device as in claim 11 wherein said sensor comprises a
2 potentiometer.

1 17. An actuating device as in claim 1 wherein said driving device
2 further comprises a clutch via which said cable drum is driven.

1 18. An actuating device as in claim 17 wherein said clutch is an
2 electromagnetic clutch.

1 19. An actuating device as in claim 18 wherein said electromagnetic
2 clutch is open in a non-energized state and closed in an energized state.

1 20. An actuating device as in claim 1 wherein said driving device
2 comprises a self-locking electric motor.

1 21. An actuating element as in claim 1 further comprising a force
2 accumulator arranged between said base part and said movable part.

1 22. An actuating device as in claim 21 wherein said force accumulator
2 is a piston-cylinder unit having a cylinder connected to one of said base part and said
3 movable part, and a piston connected to the other of said base part and said movable
4 part.

1 23. An actuating device as in claim 1 further comprising a fixing
2 element arranged between the base part and the movable part, said fixing element
3 retaining said movable part in a fixed position when said driving device is not actuated.

1 24. An actuating device as in claim 23 wherein said fixing element
2 provides a retaining force which is eliminated when said driving device is actuated.

1 25. An actuating device as in claim 24 wherein said fixing element is a
2 piston-cylinder unit having a cylinder connected to one of said base part and said
3 movable part, and a piston connected to the other of said base part and said movable
4 part.

5